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Environmental Careers Organization

US EPA Great Lakes National Program Office

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Lake Michigan Mass Balance Background

38,146 samples with over 1 million result data



Atrazine

PCBs

trans-Nonachlor

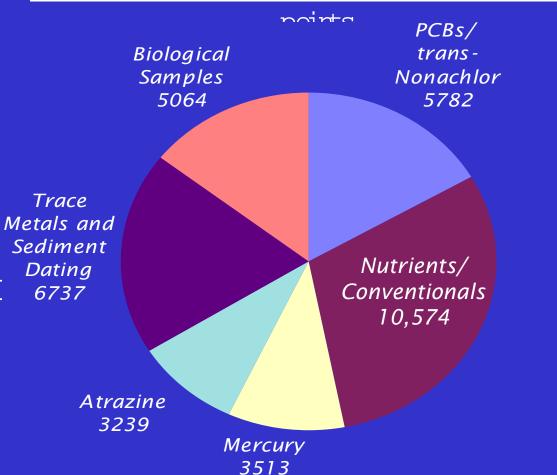
Mercury

Nutrients/Conventiona

S

Biologicals

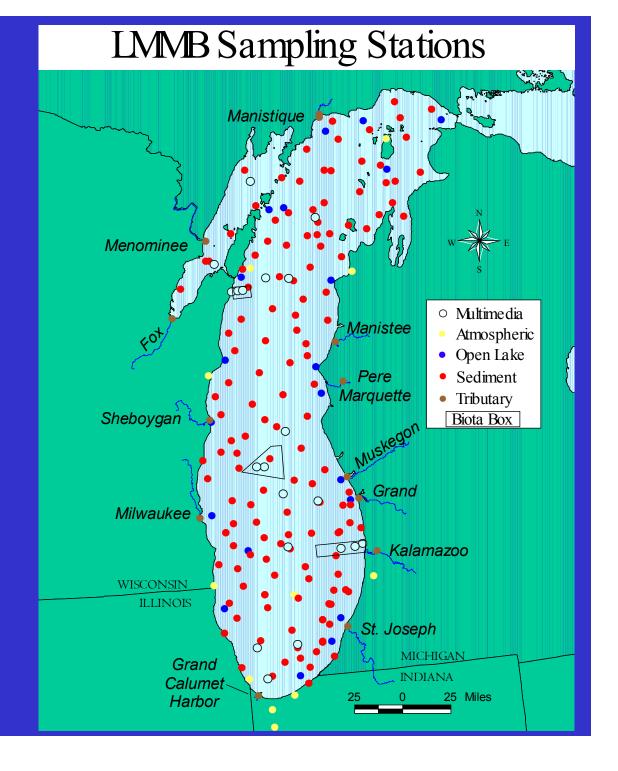
Metals



LMMB Stations

Individual maps:

- Air
- Open Lake
- Sediment
- Tributary
- Biota



Data Coordination

Organizing Electronic Metadata

Data Tracking
Releases & Outputs
Working with Clients
12 Tailored Outputs
(E-mail/FTP/CD)

Metadata codes

Accurate?

Current?

Available?

Publish ONLINE

GIS mapping projects

LMMB, SOLEC '99,

GLNPO WQS, LaMP

Publish ONLINE





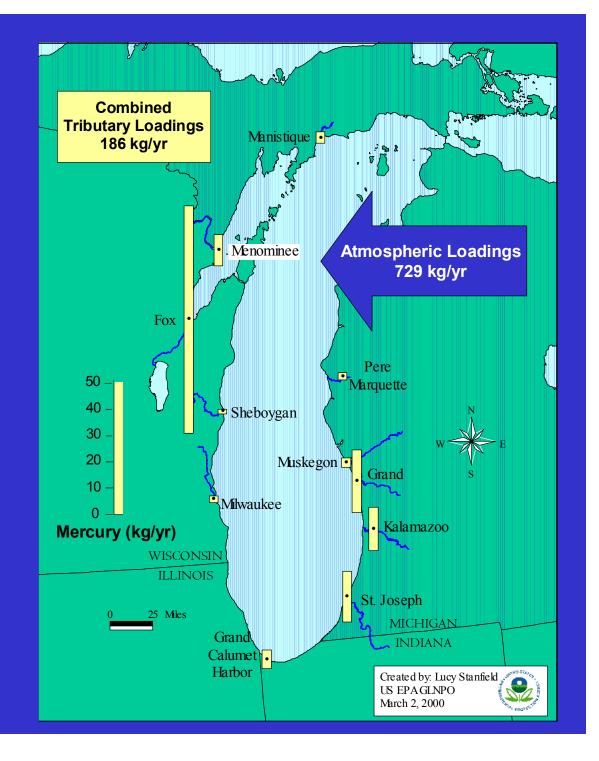
How does the quality of GIS affect environmental monitoring efforts?

• By updating the original sampling station maps

- Enhanced QA Process
- Access to accurate information
 - Data CD
 - Online

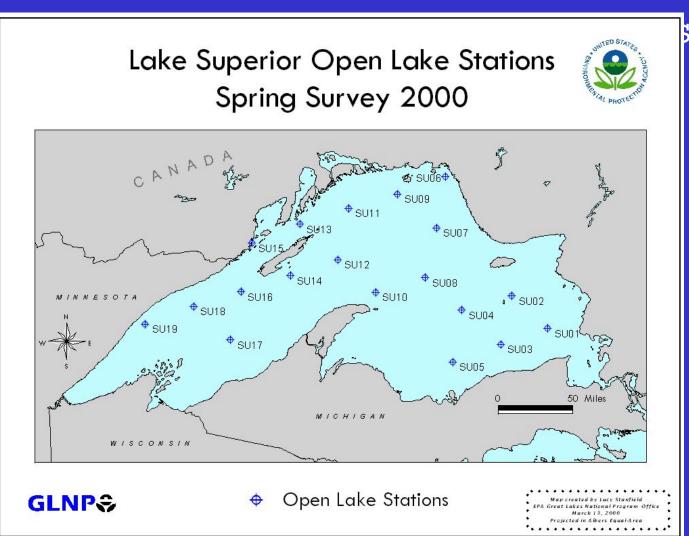
GIS products of known quality

- Visualize
 environmental
 conditions on a
 regional scale
- Communicate information to partners/public
- Plan for future monitoring efforts where trends develop



GIS products of known quality

• Easy reference for ongoing GLNPO







- GIS is part of the QA process
- EPA Locational Data Policy
 - Integral part of reporting standard
 - At the project start or as early as possible
- Maps tell a story visually
 - Have a specific purpose & known quality
 - Critical for long-term projects
 - Instantly communicate scope of project
 - Easy to display electronically (webpage, data CD)
- Make QA & metadata resources available electronically



GLNPO - IMMB website: www.epa.gov/glnpo/lmmb